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Advances in Thin Structures and Materials Modelling

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Message from the Guest Editors

Thin structures widely used in electro-mechanical devices and structural components have been experimentally observed to exhibit size effects at the micron and nanometer scales, which cannot be interpreted using classical theories. Hence, higher-order (non-classical) theories need to be applied to develop new size-dependent models for thin elastic/ dielectric/ piezoelectric/ piezomagnetic/ magnetoelectric structures. The relevant variational formulations, numerical approaches and applications have attracted many researchers. The aim of this Special Issue is to cover the recent theoretical and numerical studies in novel size-dependent thin structure models, ranging from isotropic elastic materials to all types of crystalline solids. Applications to corresponding bending, buckling, vibration, elastic wave propagation and other engineering problems are also included in this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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